

FIG.1

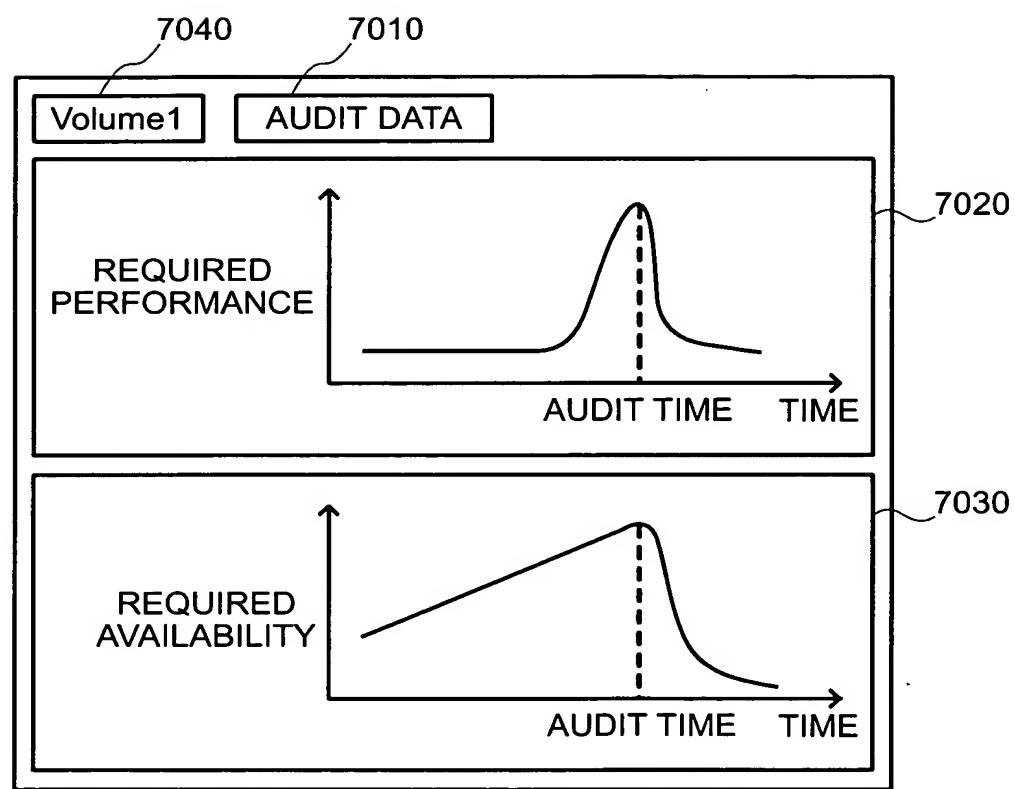


FIG.2

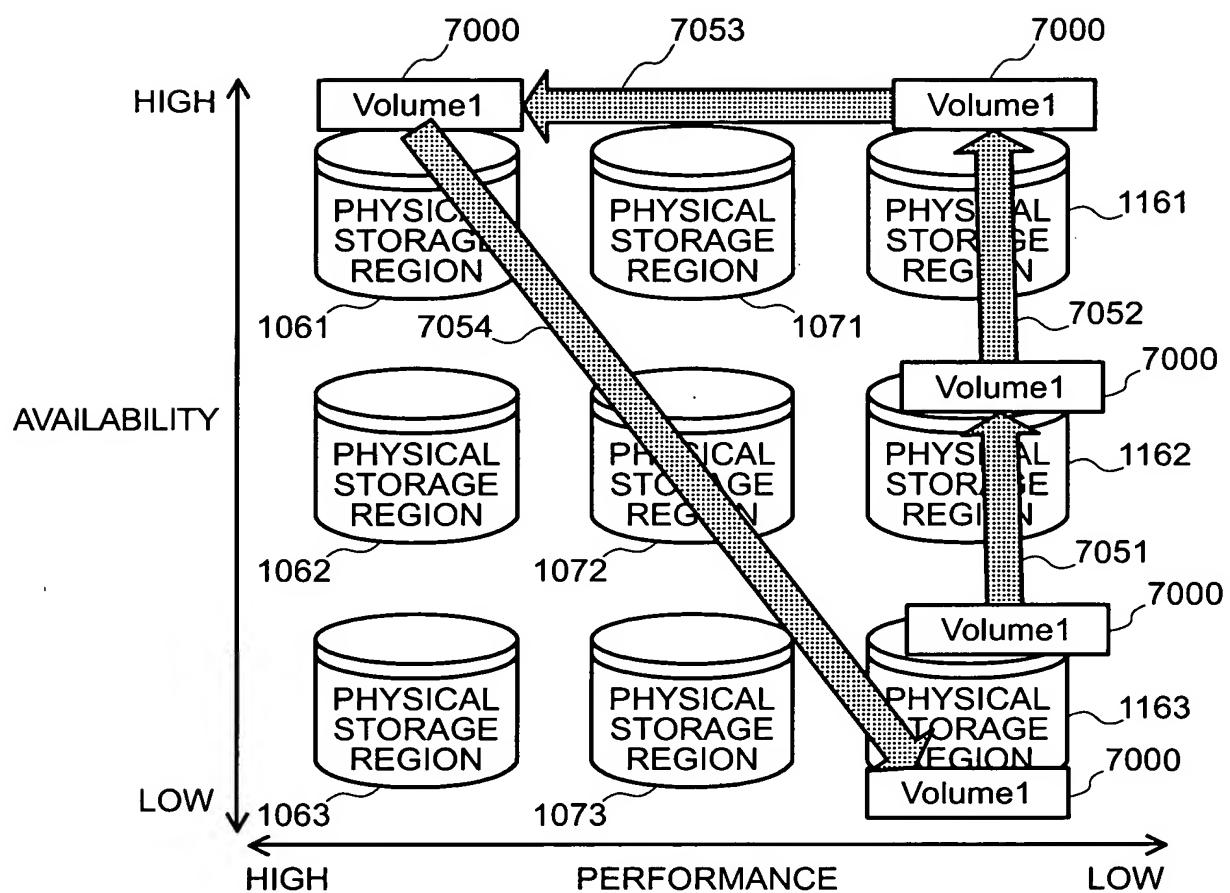


FIG.3

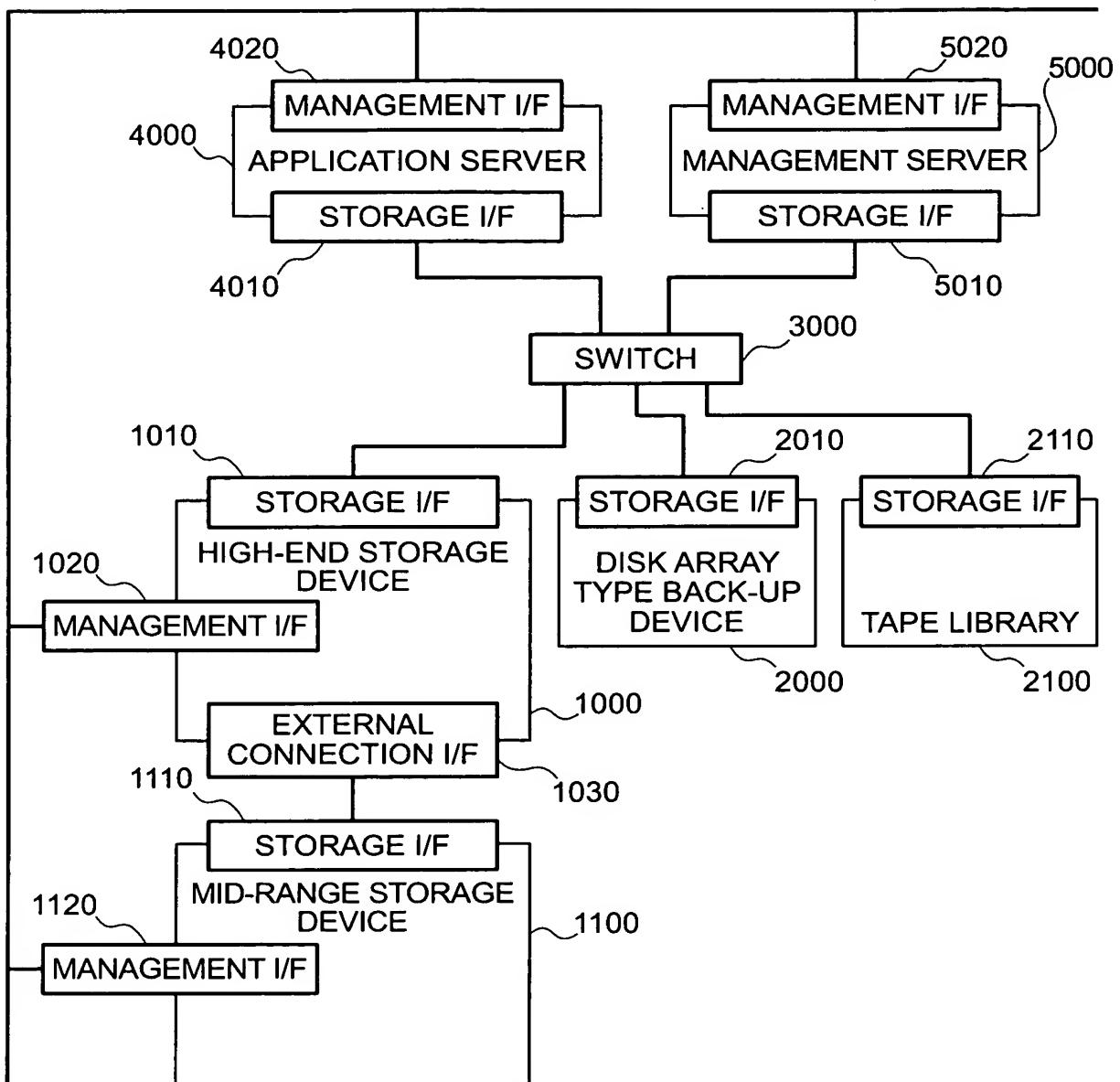


FIG.4

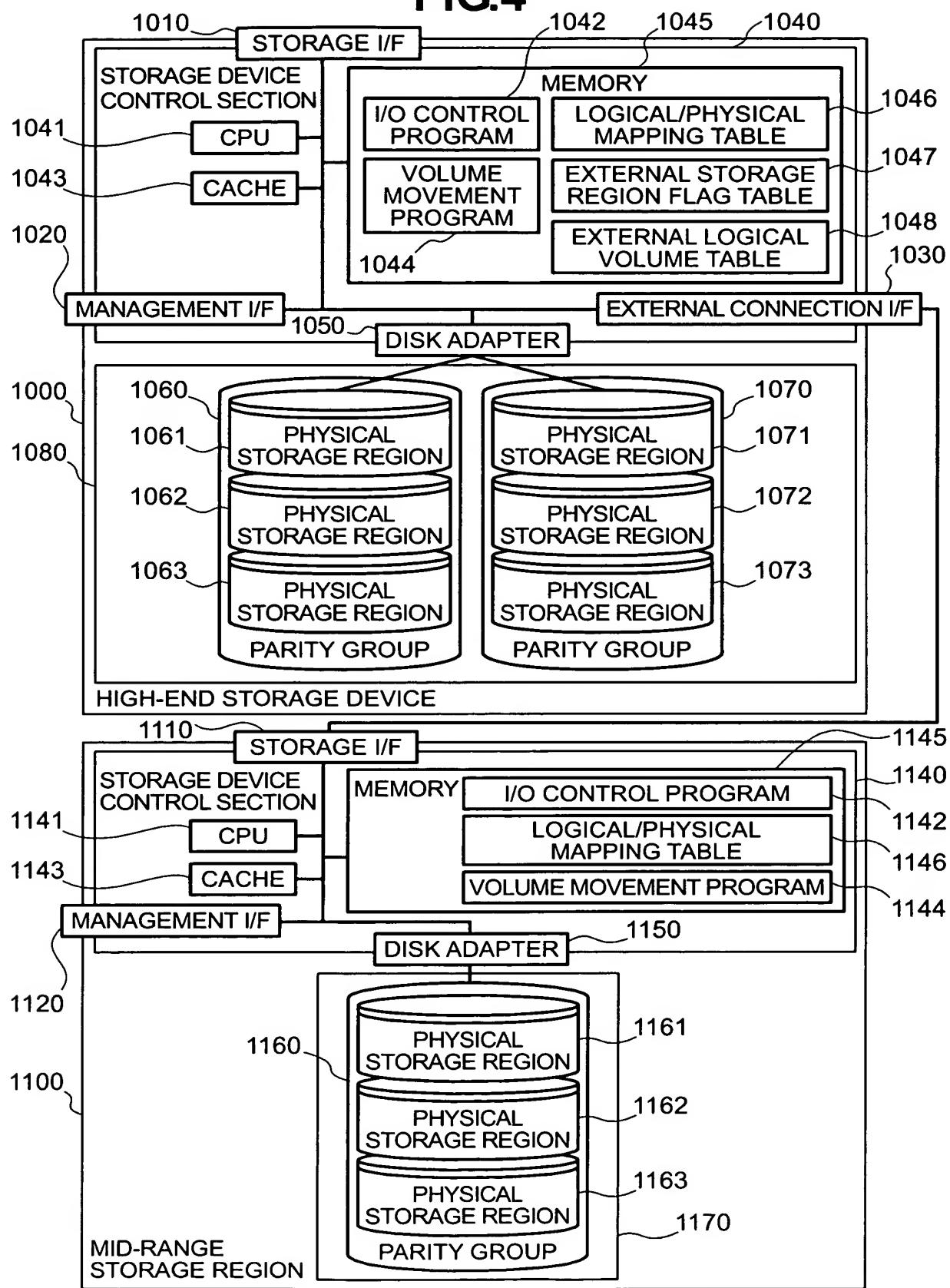


FIG.5A

LOGICAL VOLUME ID	PARITY GROUP ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
Volume1	1060	1061	0~1023
Volume2	1060	1063	0~1023
Volume4	1070	1072	0~1023
Volume6	1070	1072	1024~2047

FIG.5B

LOGICAL VOLUME ID	EXTERNAL STORAGE REGION FLAG
Volume1	0
Volume2	0
Volume3	1
Volume4	0
Volume5	1
Volume6	0

FIG.5C

LOGICAL VOLUME ID	STORAGE DEVICE ID	EXTERNAL LOGICAL VOLUME ID
Volume3	1100	Volume1
Volume5	1100	Volume2

FIG.5D

LOGICAL VOLUME ID	PARITY GROUP ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION
Volume1	1160	1161	0~1023
Volume2	1160	1163	0~1023

FIG.6

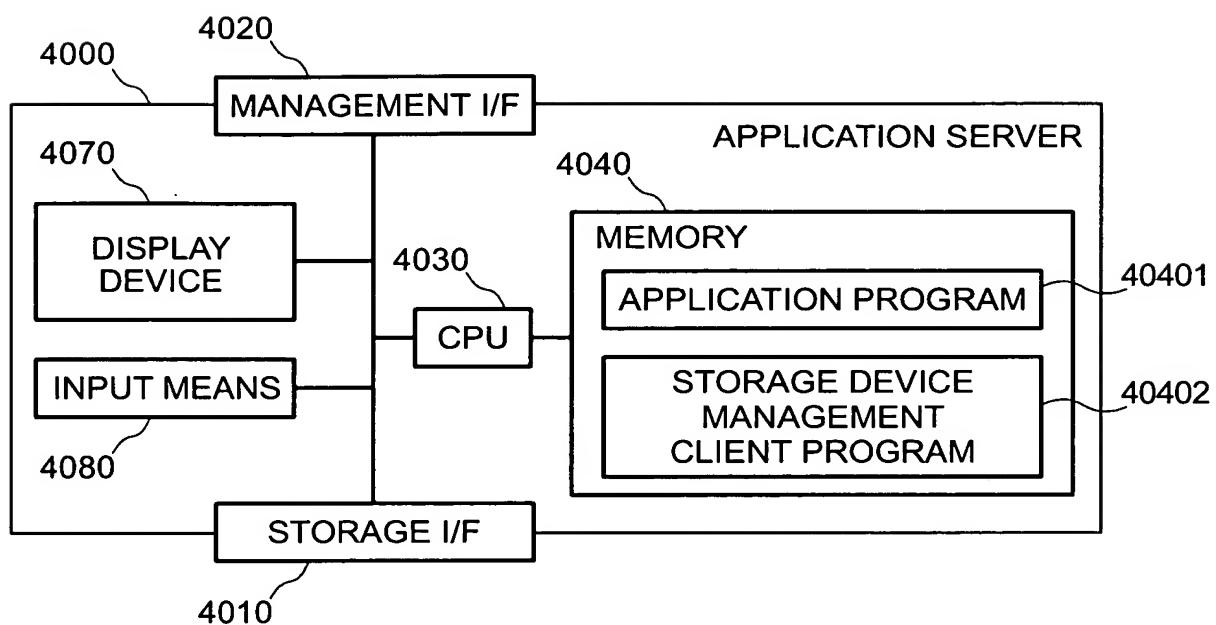


FIG.7

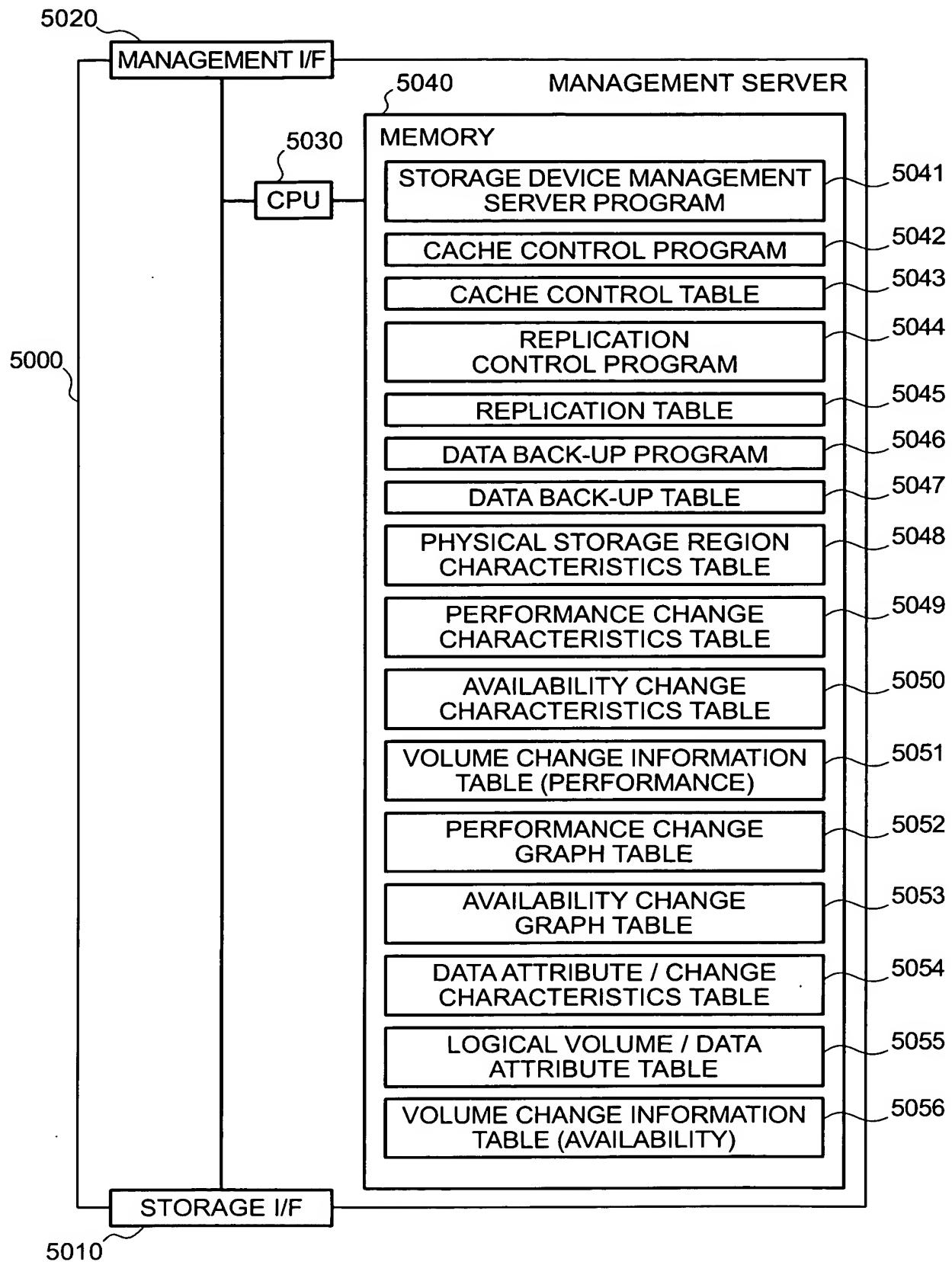


FIG.8

50471 50472 50473 50474

STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	BACK-UP DEVICE ID	BACK-UP DEVICE CHARACTERISTICS
1000	1061	2000	HIGH-SPEED
1000	1062	2000	HIGH-SPEED
1000	1063	2100	LOW-SPEED
1000	1071	2000	HIGH-SPEED
1000	1072	2000	HIGH-SPEED
1000	1073	2100	LOW-SPEED
1100	1161	2000	HIGH-SPEED
1100	1162	2000	HIGH-SPEED
1100	1163	2100	LOW-SPEED

FIG.9

50451 5045 50452

STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID
1000	1061
1000	1071
1100	1161

FIG.10

50431 5043 50432

STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID
1000	1061
1000	1062
1000	1163

FIG.11

STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	PERFORMANCE CHARACTERISTICS	AVAILABILITY CHARACTERISTICS
1000	1061	HIGH	HIGH
1000	1062	HIGH	MEDIUM
1000	1063	HIGH	LOW
1000	1071	MEDIUM	HIGH
1000	1072	MEDIUM	MEDIUM
1000	1073	MEDIUM	LOW
1100	1161	LOW	HIGH
1100	1162	LOW	MEDIUM
1100	1163	LOW	LOW

FIG.12A

50491		50492		50493		50494		50495	
PERFORMANCE CHANGE CHARACTERISTICS ID	ESTABLISHED DATE/TIME	NAME	ESTABLISHED DATE/TIME	CHANGE DATE	VOLUME CHANGE INFORMATION ID	PERFORMANCE CHANGE GRAPH ID	ESTABLISHED DATE/TIME	CHANGE DATE	PERFORMANCE CHANGE GRAPH ID
1	STORAGE CONDITIONS	CHANGE DATE	2008/7/15	1	1	1	2008/7/15	1	1
2	—	—	—	—	2	2	—	—	2
3	AUDIT DATE	—	2004/6/30	3	3	3	—	—	3
4	AUDIT DATE	—	2004/9/30	3	3	3	—	—	3

FIG.12B

50511		50512		50513		50514	
VOLUME MOVEMENT INFORMATION (PERFORMANCE) ID	MOVEMENT NO.	MOVEMENT DATE/TIME	MOVEMENT DATE/TIME	MOVEMENT DATE/TIME	MOVEMENT DATE/TIME	MOVEMENT DESTINATION PERFORMANCE CHARACTERISTICS	MOVEMENT DESTINATION PERFORMANCE CHARACTERISTICS
1	1	UPON CREATION	UPON CREATION	UPON CREATION	UPON CREATION	HIGH	HIGH
2	2	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3	(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3	MEDIUM	MEDIUM
3	1	ESTABLISHED DATE/TIME - 3	ESTABLISHED DATE/TIME - 3	ESTABLISHED DATE/TIME + 1	ESTABLISHED DATE/TIME + 1	LOW	LOW
	2	ESTABLISHED DATE/TIME - 3	ESTABLISHED DATE/TIME - 3	ESTABLISHED DATE/TIME + 1	ESTABLISHED DATE/TIME + 1	HIGH	HIGH
	3	ESTABLISHED DATE/TIME + 1	ESTABLISHED DATE/TIME + 1	ESTABLISHED DATE/TIME - 3	ESTABLISHED DATE/TIME - 3	LOW	LOW

FIG.13

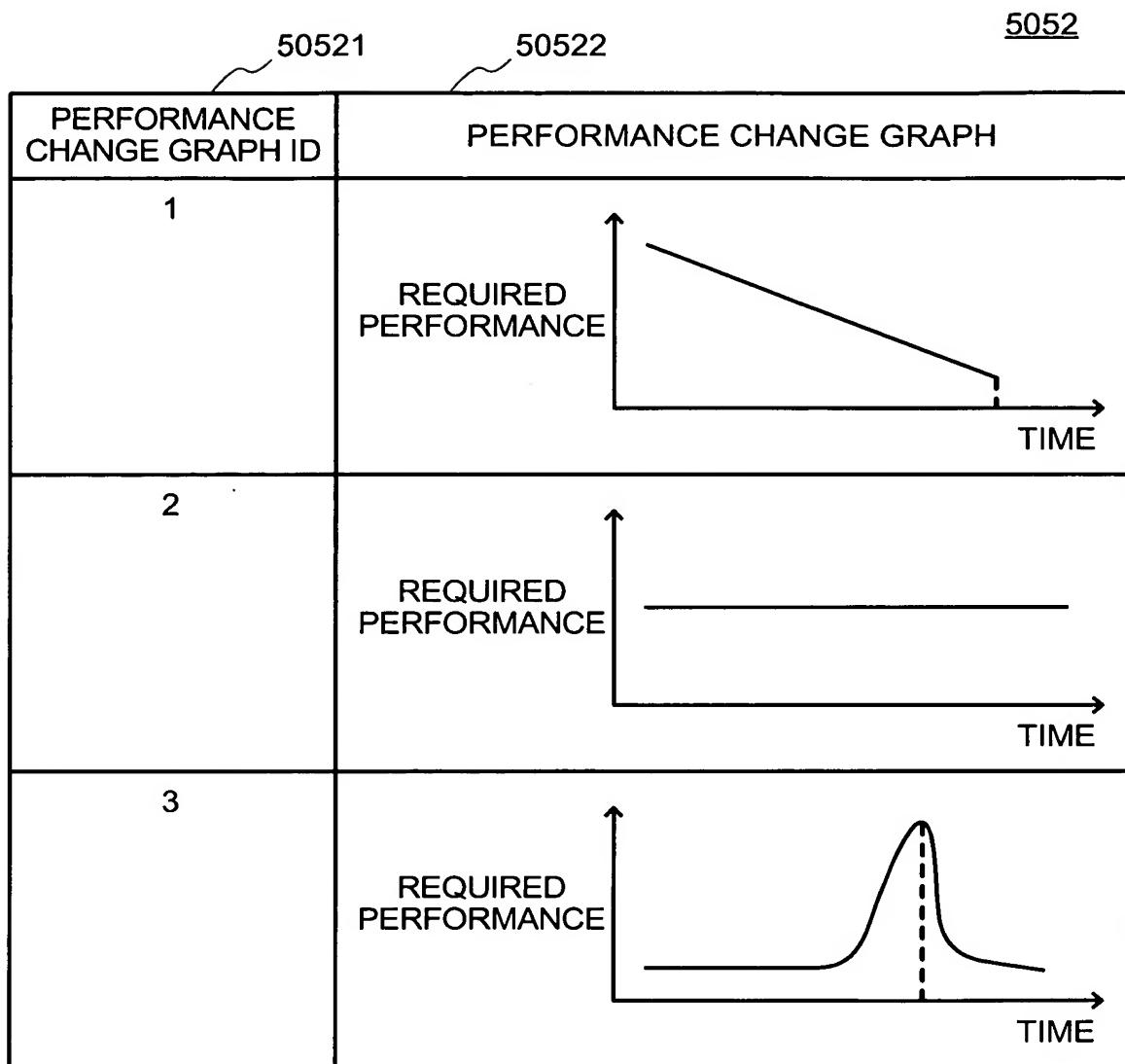


FIG.14

50501		50502		50503		50504		50505	
AVAILABILITY CHANGE CHARACTERISTICS ID		ESTABLISHED DATE NAME		ESTABLISHED DATE/TIME		VOLUME MOVEMENT INFORMATION ID		AVAILABILITY CHANGE GRAPH ID	
1		FILING CONDITIONS	CHANGE DATE	2008/7/15		1		1	
2		FILING CONDITIONS	CHANGE DATE	2005/7/15		2		2	
3		MONITORING	DATE	2004/6/30		3		3	
4		MONITORING	DATE	2004/9/30		3		3	

50515		50516		50517		50518	
VOLUME MOVEMENT INFORMATION (AVAILABILITY) ID		MOVEMENT NO.		MOVEMENT DATE/TIME		MOVEMENT DESTINATION AVAILABILITY CHARACTERISTICS	
1		1		UPON CREATION		HIGH	
		2		(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3		MEDIUM	
		3		(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3		LOW	
2		1		UPON CREATION		HIGH	
		2		ESTABLISHED DATE/TIME		LOW	
3		1		UPON CREATION		LOW	
		2		(ESTABLISHED DATE/TIME - CREATION DATE/TIME) / 3		MEDIUM	
		3		(ESTABLISHED DATE/TIME - CREATION DATE/TIME) × 2/3		HIGH	
		4		ESTABLISHED DATE/TIME + 1		LOW	

FIG.15

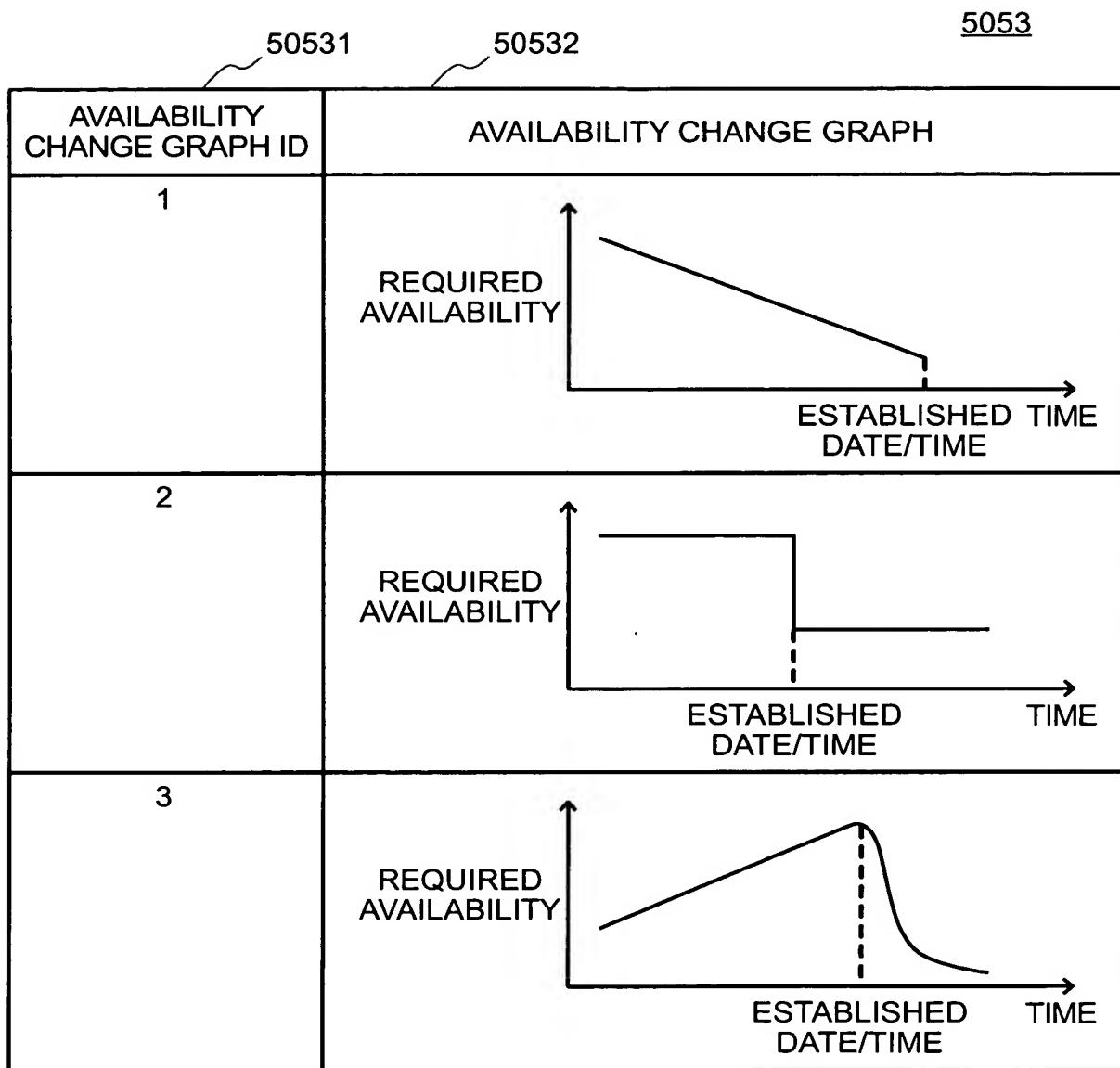


FIG.16

DATAATTRIBUTE NAME	PERFORMANCE CHANGE CHARACTERISTICS ID	AVAILABILITY CHANGE CHARACTERISTICS ID
AUDIT DATA WITH ESTABLISHED DATE/TIME 6/30	3	3
MAIL LOG WITH ESTABLISHED DATE/TIME 7/15	1	2
AUDIT DATA WITH ESTABLISHED DATE /TIME 9/30	3	3

FIG.17

LOGICAL VOLUME ALLOCATION SCREEN

LOGICAL VOLUME ID 9100

DATA ATTRIBUTE NAME 9200

PERFORMANCE CHANGE CHARACTERISTICS

REQUIRED PERFORMANCE

AUDIT DATE 2004/6/30

TIME

AVAILABILITY CHANGE CHARACTERISTICS

REQUIRED AVAILABILITY

AUDIT DATE 2004/6/30

TIME

OK

9000

9700

FIG.18

5055

LOGICAL VOLUME ID	DATA ATTRIBUTE
50551	
Volume1	AUDIT DATA WITH ESTABLISHED DATE/TIME 6/30
Volume2	MAIL LOG WITH ESTABLISHED DATE/TIME 7/15

FIG.19

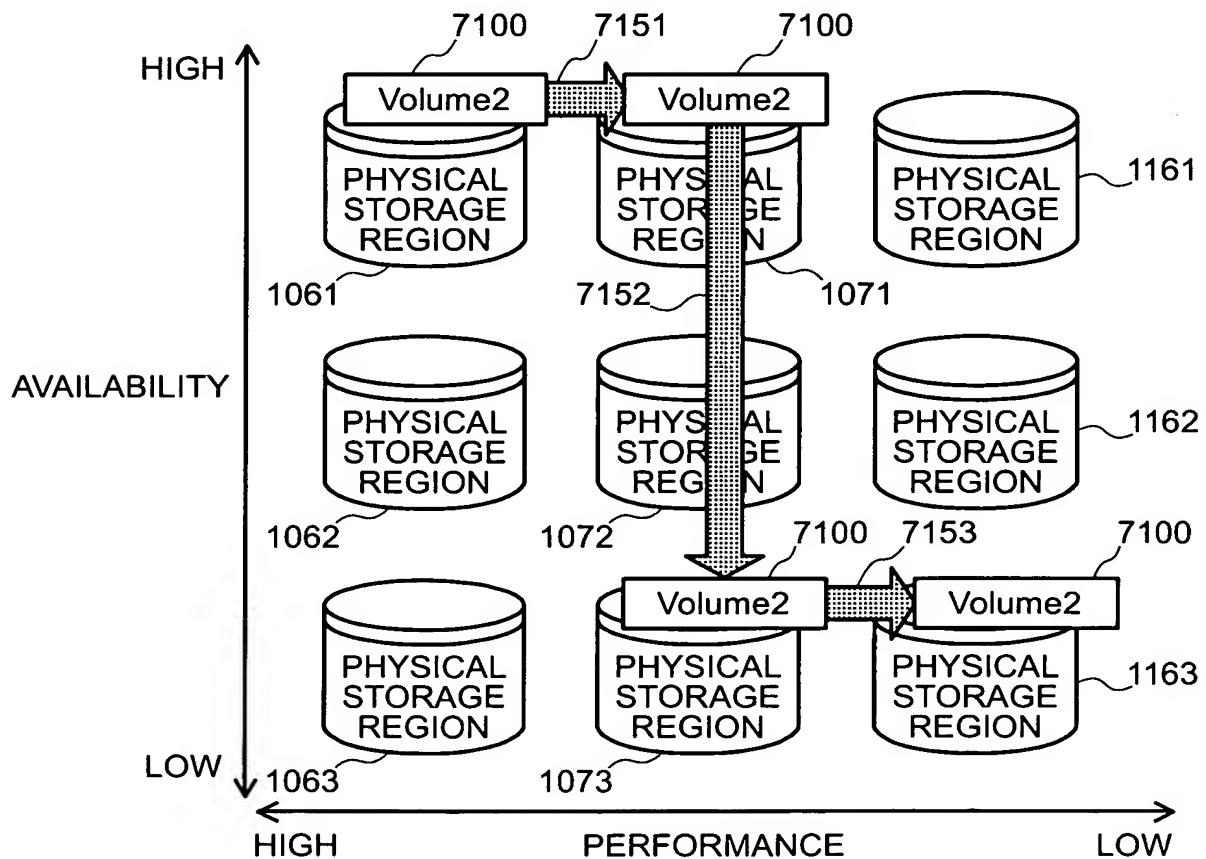


FIG.20

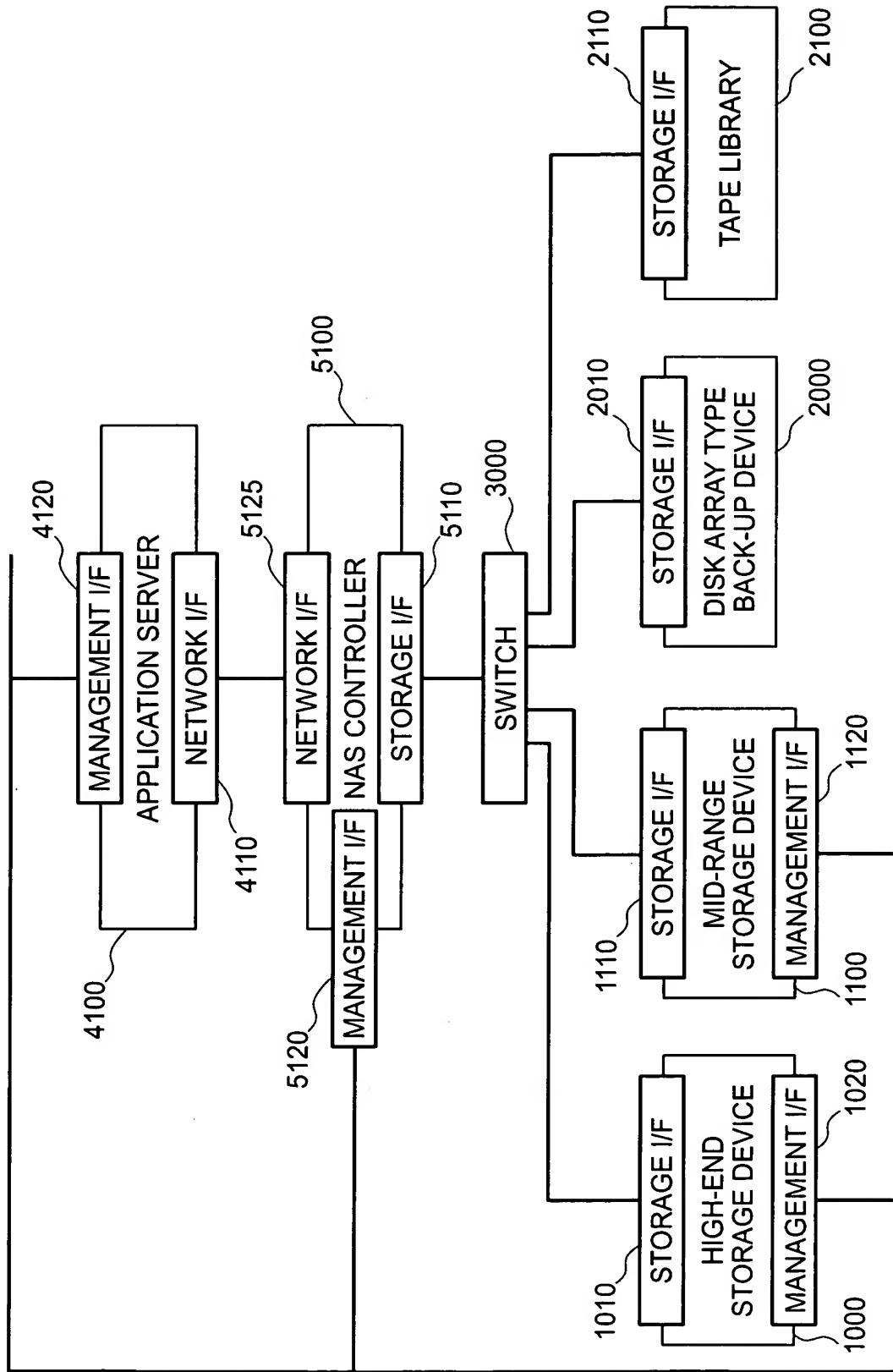


FIG.21

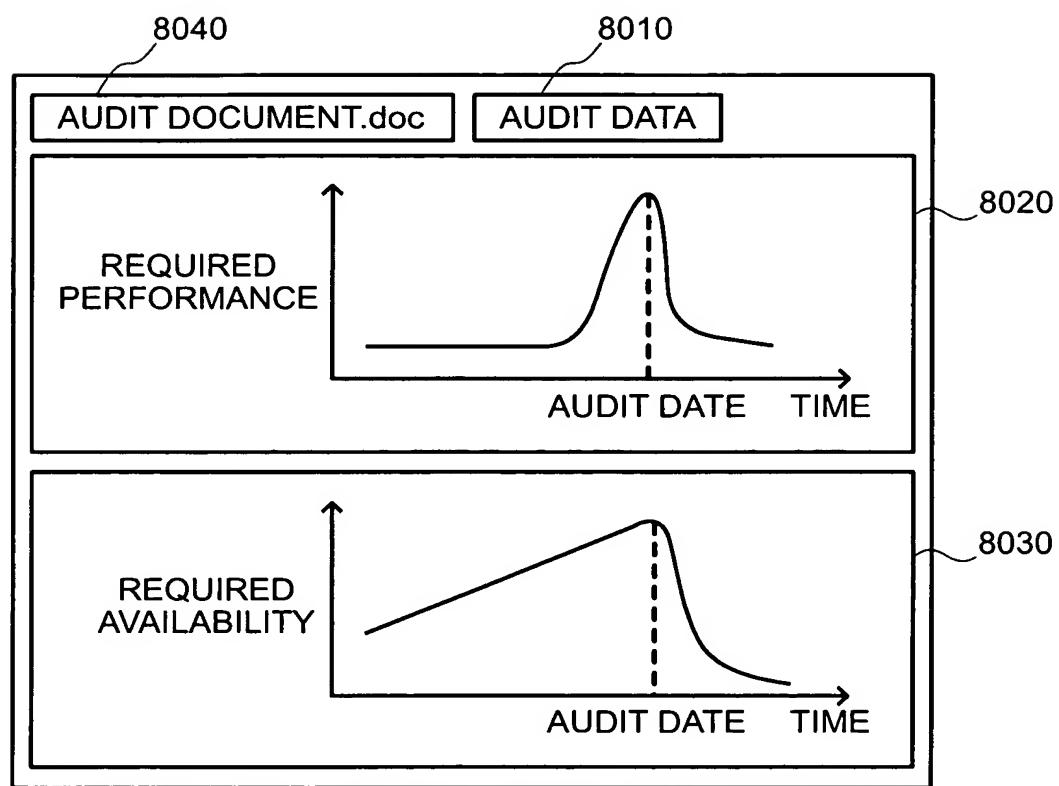


FIG.22

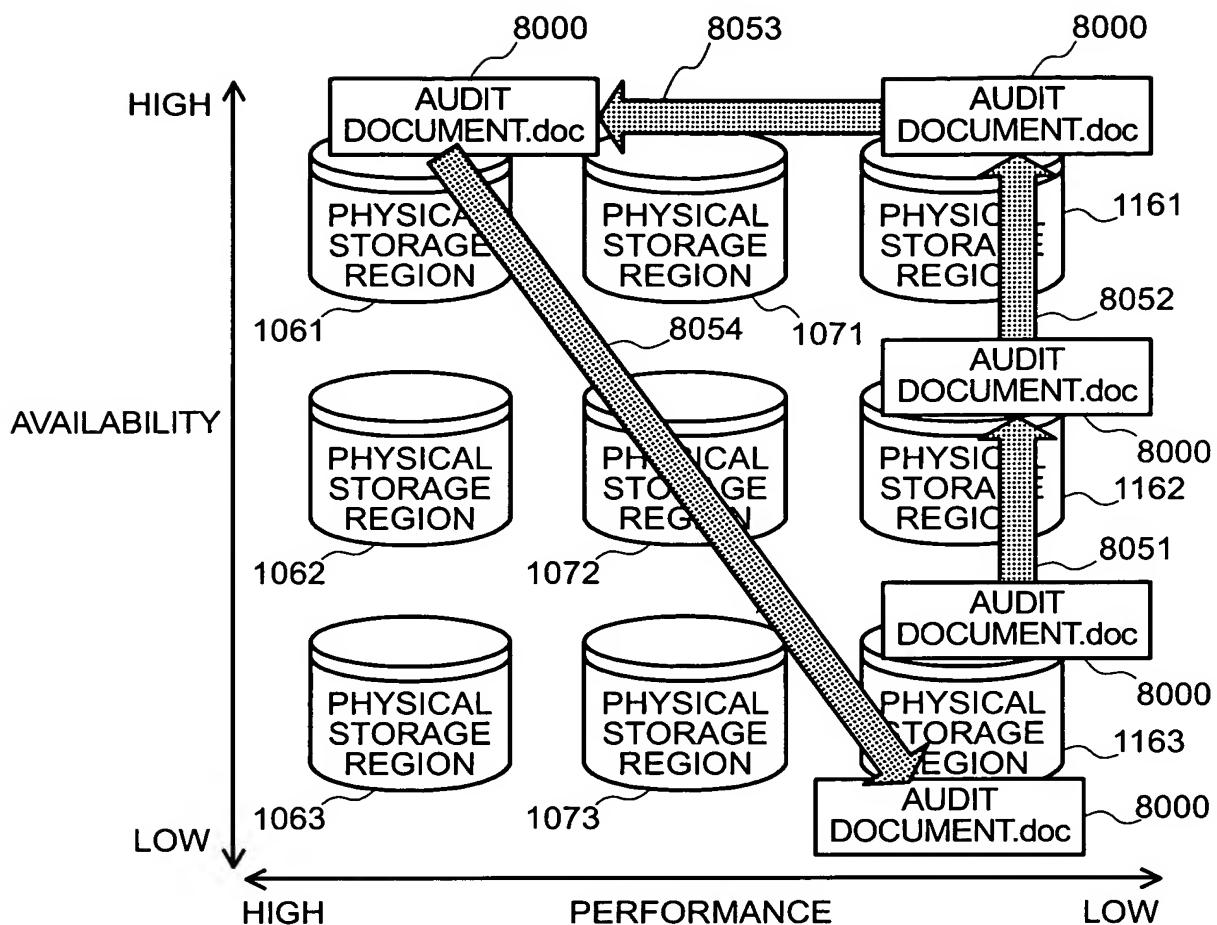


FIG.23

FILE NAME	STORAGE DEVICE ID	PHYSICAL STORAGE REGION ID	ADDRESS IN PHYSICAL STORAGE REGION	5156
AUDIT DOCUMENT.doc	1100	1163	0~1023	51561
maillog.mbx	1000	1061	0~1023	51562 51563 51564

FIG.245057

LOGICAL VOLUME	DATA TYPE	CREATION DATE	ESTABLISHED DATE	MOVEMENT DATE/TIME	PHYSICAL STORAGE REGION	
					PERFORMANCE	AVAILABILITY
1	AUDIT	2004/1/1	2004/6/30	2004/1/1	LOW	LOW
				2004/2/29	LOW	MEDIUM
				2004/4/30	LOW	HIGH
				2004/6/27	HIGH	HIGH
				2004/7/1	LOW	LOW
2	MAIL LOG	2003/12/31	2006/12/31	2003/12/31	HIGH	HIGH
				2004/12/31	MEDIUM	HIGH
				2005/12/31	LOW	LOW
...						